

#2 OIPE

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/970,287

DATE: 10/24/2001  
 TIME: 16:28:57

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 Output Set: N:\CRF3\10242001\I970287.raw

3 <110> APPLICANT: GLUCKSMANN, Maria A.  
 4 MEYERS, Rachel  
 5 KAPPELLER-LIBERMANN, Rosana  
 6 SILOS-SANTIAGO, Inmaculada  
 8 <120> TITLE OF INVENTION: 22437, A NOVEL HUMAN SULFATASE AND USES THEREFOR  
 10 <130> FILE REFERENCE: 10147-61U1  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/970,287 OK

13 <141> CURRENT FILING DATE: 2001-10-03  
 15 <150> PRIOR APPLICATION NUMBER: US 60/257,082  
 16 <151> PRIOR FILING DATE: 2000-12-21  
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 20 <170> SOFTWARE: PatentIn Ver. 2.1  
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 23 <211> LENGTH: 3513  
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 25 <213> ORGANISM: Homo sapiens  
 27 <400> SEQUENCE: 1

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60 tatgtccgca gtcgtcccat ccgctcagtg gccatcgagg tggacggcag ggtgtaccac 1980
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89 &lt;210&gt; SEQ ID NO: 2

90 &lt;211&gt; LENGTH: 870

91 &lt;212&gt; TYPE: PRT

92 &lt;213&gt; ORGANISM: Homo sapiens

94 &lt;400&gt; SEQUENCE: 2

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98 Ser Leu Leu Gly Gly Ser Ser Ala Phe Leu Ser His His Arg Leu Lys
99   20           25           30
101 Gly Arg Phe Gln Arg Asp Arg Arg Asn Ile Arg Pro Asn Ile Ile Leu
102   35           40           45
104 Val Leu Thr Asp Asp Gln Asp Val Glu Leu Gly Ser Met Gln Val Met
105   50           55           60
107 Asn Lys Thr Arg Arg Ile Met Glu Gln Gly Gly Thr His Phe Ile Asn
108  65           70           75           80
110 Ala Phe Val Thr Thr Pro Met Cys Cys Pro Ser Arg Ser Ser Ile Leu
111   85           90           95
113 Thr Gly Lys Tyr Val His Asn His Asn Thr Tyr Thr Asn Asn Glu Asn
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116 Cys Ser Ser Pro Ser Trp Gln Ala Gln His Glu Ser Arg Thr Phe Ala

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120          130          135          140
122 Leu Asn Glu Tyr Asn Gly Ser Tyr Val Pro Pro Gly Trp Lys Glu Trp
123 145          150          155          160
125 Val Gly Leu Leu Lys Asn Ser Arg Phe Tyr Asn Tyr Thr Leu Cys Arg
126          165          170          175
128 Asn Gly Val Lys Glu Lys His Gly Ser Asp Tyr Ser Lys Asp Tyr Leu
129          180          185          190
131 Thr Asp Leu Ile Thr Asn Asp Ser Val Ser Phe Phe Arg Thr Ser Lys
132          195          200          205
134 Lys Met Tyr Pro His Arg Pro Val Leu Met Val Ile Ser His Ala Ala
135          210          215          220
137 Pro His Gly Pro Glu Asp Ser Ala Pro Gln Tyr Ser Arg Leu Phe Pro
138 225          230          235          240
140 Asn Ala Ser Gln His Ile Thr Pro Ser Tyr Asn Tyr Ala Pro Asn Pro
141          245          250          255
143 Asp Lys His Trp Ile Met Arg Tyr Thr Gly Pro Met Lys Pro Ile His
144          260          265          270
146 Met Glu Phe Thr Asn Met Leu Gln Arg Lys Arg Leu Gln Thr Leu Met
147          275          280          285
149 Ser Val Asp Asp Ser Met Glu Thr Ile Tyr Asn Met Leu Val Glu Thr
150          290          295          300
152 Gly Glu Leu Asp Asn Thr Tyr Ile Val Tyr Thr Ala Asp His Gly Tyr
153 305          310          315          320
155 His Ile Gly Gln Phe Gly Leu Val Lys Gly Lys Ser Met Pro Tyr Glu
156          325          330          335
158 Phe Asp Ile Arg Val Pro Phe Tyr Val Arg Gly Pro Asn Val Glu Ala
159          340          345          350
161 Gly Cys Leu Asn Pro His Ile Val Leu Asn Ile Asp Leu Ala Pro Thr
162          355          360          365
164 Ile Leu Asp Ile Ala Gly Leu Asp Ile Pro Ala Asp Met Asp Gly Lys
165          370          375          380
167 Ser Ile Leu Lys Leu Leu Asp Thr Glu Arg Pro Val Asn Arg Phe His
168 385          390          395          400
170 Leu Lys Lys Lys Met Arg Val Trp Arg Asp Ser Phe Leu Val Glu Arg
171          405          410          415
173 Gly Lys Leu Leu His Lys Arg Asp Asn Asp Lys Val Asp Ala Gln Glu
174          420          425          430
176 Glu Asn Phe Leu Pro Lys Tyr Gln Arg Val Lys Asp Leu Cys Gln Arg
177          435          440          445
179 Ala Glu Tyr Gln Thr Ala Cys Glu Gln Leu Gly Gln Lys Trp Gln Cys
180          450          455          460
182 Val Glu Asp Ala Thr Gly Lys Leu Lys Leu His Lys Cys Lys Gly Pro
183 465          470          475          480
185 Met Arg Leu Gly Gly Ser Arg Ala Leu Ser Asn Leu Val Pro Lys Tyr
186          485          490          495
188 Tyr Gly Gln Gly Ser Glu Ala Cys Thr Cys Asp Ser Gly Asp Tyr Lys
189          500          505          510

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191 Leu Ser Leu Ala Gly Arg Arg Lys Lys Leu Phe Lys Lys Lys Tyr Lys
192      515      520      525
194 Ala Ser Tyr Val Arg Ser Arg Ser Ile Arg Ser Val Ala Ile Glu Val
195      530      535      540
197 Asp Gly Arg Val Tyr His Val Gly Leu Gly Asp Ala Ala Gln Pro Arg
198 545      550      555      560
200 Asn Leu Thr Lys Arg His Trp Pro Gly Ala Pro Glu Asp Gln Asp Asp
201      565      570      575
203 Lys Asp Gly Gly Asp Phe Ser Gly Thr Gly Gly Leu Pro Asp Tyr Ser
204      580      585      590
206 Ala Ala Asn Pro Ile Lys Val Thr His Arg Cys Tyr Ile Leu Glu Asn
207      595      600      605
209 Asp Thr Val Gln Cys Asp Leu Asp Leu Tyr Lys Ser Leu Gln Ala Trp
210      610      615      620
212 Lys Asp His Lys Leu His Ile Asp His Glu Ile Glu Thr Leu Gln Asn
213 625      630      635      640
215 Lys Ile Lys Asn Leu Arg Glu Val Arg Gly His Leu Lys Lys Lys Arg
216      645      650      655
218 Pro Glu Glu Cys Asp Cys His Lys Ile Ser Tyr His Thr Gln His Lys
219      660      665      670
221 Gly Arg Leu Lys His Arg Gly Ser Leu His Pro Phe Arg Lys Gly
222      675      680      685
224 Leu Gln Glu Lys Asp Lys Val Trp Leu Leu Arg Glu Gln Lys Arg Lys
225      690      695      700
227 Lys Lys Leu Arg Lys Leu Leu Lys Arg Leu Gln Asn Asn Asp Thr Cys
228 705      710      715      720
230 Ser Met Pro Gly Leu Thr Cys Phe Thr His Asp Asn Gln His Trp Gln
231      725      730      735
233 Thr Ala Pro Phe Trp Thr Leu Gly Pro Phe Cys Ala Cys Thr Ser Ala
234      740      745      750
236 Asn Asn Asn Thr Tyr Trp Cys Met Arg Thr Ile Asn Glu Thr His Asn
237      755      760      765
239 Phe Leu Phe Cys Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Leu
240      770      775      780
242 Asn Thr Asp Pro Tyr Gln Leu Met Asn Ala Val Asn Thr Leu Asp Arg
243 785      790      795      800
245 Asp Val Leu Asn Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys
246      805      810      815
248 Lys Gly Tyr Lys Gln Cys Asn Pro Arg Thr Arg Asn Met Asp Leu Gly
249      820      825      830
251 Leu Lys Asp Gly Gly Ser Tyr Glu Gln Tyr Arg Gln Phe Gln Arg Arg
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261 <210> SEQ ID NO: 3
262 <211> LENGTH: 2610
263 <212> TYPE: DNA

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/970,287

DATE: 10/24/2001  
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Input Set : A:\10147611.app  
Output Set: N:\CRF3\10242001\I970287.raw

264 <213> ORGANISM: Homo sapiens

266 <400> SEQUENCE: 3

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269 aacatccgcc ccaacatcat cctggtgctg acggacgacc aggatgtgga gctgggttcc 180
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313 <210> SEQ ID NO: 4

W--> 314 <400> SEQUENCE: 4

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VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/970,287

DATE: 10/24/2001  
TIME: 16:28:58

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Output Set: N:\CRF3\10242001\I970287.raw

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